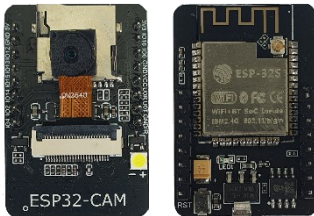




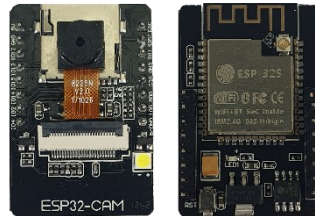
## ESP32-CAM – Battery Runtimes

18<sup>th</sup> October 2024

### Generic ESP32-CAM - Variant 1



### Generic ESP32-CAM - Variant 2



### AI Thinker ESP32-CAM



Voltage	ADC	Runtime
6.10v	1949	0.00 HRS
5.56v	1697	0.50 HRS
5.32v	1602	1.00 HRS
5.18v	1553	1.50 HRS
5.05v	1504	2.00 HRS
4.90v	1466	2.50 HRS
4.75v	1437	3.00 HRS
4.64v	1408	3.50 HRS
4.54v	1378	4.00 HRS
4.40v	1355	4.50 HRS
4.20v	1316	5.00 HRS
4.00v	1270	5.50 HRS
3.60v	1225	6.00 HRS
3.40v	1115	6.16 HRS

**Total Runtime:** 6 Hours, 10 Minutes

**Note:** AI Thinker board clone - has a distinctive circle dot next to ESP32-CAM text on the PCB. This PCB has horizontal interference lines showing on the camera stream. Made in China.

Voltage	ADC	Runtime
6.09v	1924	0.00 HRS
5.62v	1698	0.50 HRS
5.35v	1587	1.00 HRS
5.19v	1525	1.50 HRS
5.05v	1480	2.00 HRS
4.90v	1438	2.50 HRS
4.78	1408	3.00 HRS
4.68	1381	3.50 HRS
4.58	1355	4.00 HRS
4.44v	1325	4.50 HRS
4.32v	1297	5.00 HRS
4.16v	1267	5.50 HRS
3.78v	1214	6.00 HRS
3.40v	1076	6.50 HRS

**Total Runtime:** 6 Hours, 30 Minutes

**Note:** AI Thinker board clone - board has proper shielding and good quality PCB components with no camera interference. Made in China.

Voltage	ADC	Runtime
6.25v	2051	0.00 HRS
5.70v	1795	0.50 HRS
5.45v	1673	1.00 HRS
5.34v	1617	1.50 HRS
5.22v	1574	2.00 HRS
5.10v	1534	2.50 HRS
5.00v	1500	3.00 HRS
4.90v	1472	3.50 HRS
4.82v	1449	4.00 HRS
4.73v	1422	4.50 HRS
4.64v	1399	5.00 HRS
4.54v	1373	5.50 HRS
4.44v	1355	6.00 HRS
4.32v	1316	6.50 HRS
4.20v	1281	7.00 HRS
3.95v	1234	7.50 HRS
3.53v	1145	8.0 HRS
3.30v	1086	8.16 HRS

**Total Runtime:** 8 Hours, 10 Minutes

**Note:** Original AI Thinker board, increased run time due to production quality and components used in manufacture.

**Note:** All testing done with 4 x Duracell Coppertop AA Batteries. Each cell measured at approximately 1.62v prior to power on. Testing motherboard used was the AUS Precision ESP32-CAM MB Version 6 with a buck/boost voltage regulator fitted.